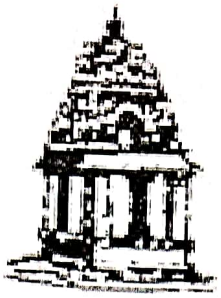

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements to roads and drains at Agrahara And Agrahara Layout, kattigenahalli in ward No.06 Byatarayanapura Sub Division**

EMB

Pre- Measurement

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BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

Pre Measurements

Name of work:- Improvements to roads and drains at Agrahara And Agrahara Layout, kattigenahalli in ward No.06 Byatarayanapura Sub Division

Work Order No: BBMP/EE/BTP/WO/195/2022-23 dt: 27.03.2023

JOB NUMBER: 006-23-000011

Estimate Cost: 80.00 lakhs.

As No: AS/EE(BTP)/43/2022-23 Dt: 21.02.2023

Ts No :TS/ CE(YNK) /98/2022-23 dt : 16.09.2022

Name of Contractor : Vasanth R

Sl No	Description of item	Unit	No	L	B				D	Qty
3	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)									
	For RCC Drain									
A	Agrahara main road in front of government school									
	Ch 0-15	Cum	1	15	1.10				0.95	15.68
	Ch 15-30	Cum	1	15	1.10				0.90	14.85
	Ch 30-45.5	Cum	1	15.5	1.10				0.92	15.69
B	Agrahara RO Plant road									
	Ch 0-15	Cum	1	15.00	1.10				0.95	15.68
	Ch 15-30	Cum	1	15.00	1.10				0.90	14.85
	Ch 30-45	Cum	1	15.00	1.10				0.95	15.68
	Ch 45-53	Cum	1	8.00	1.10				0.90	7.92
C	Kattigenahalli									
	Bellikallu ranganath swami nilaya to dead end									
	RHS DRAIN									
	Ch 0-15	Cum	1	15.00	1.10				0.60	9.90
	Ch 15-30	Cum	1	15.00	1.10				0.62	10.23
	Ch 30-46.3	Cum	1	16.30	1.10				0.62	11.12
	LHS DRAIN									
	Ch 0-15	Cum	1	15.00	1.10				0.65	10.73
	Ch 15-30	Cum	1	15.00	1.10				0.60	9.90
	CULVERT									
	Agrahara main road in front of government school	Cum	1	8.00	1.50				1.50	18.00
	Kattigenahalli in front of muneshwara nilaya	cum	1	7.00	1.50				0.90	9.45
	Bellikallu ranganath swami nilaya to dead end	cum	1	7.00	1.20				0.90	7.56
	Omm circle to muneshwara nilaya	cum	1	5.00	1.20				0.90	5.40
	FOR DESILT									
	Krishna nagar									
	Main Road (LHS)					D1	D2	D3	Avg d=D1+D2+D3/3	
	Ch 0-15	Cum	1	15.00	0.60	0.61	0.62	0.60	0.61	5.49
	Ch 15-30	Cum	1	15.00	0.60	0.58	0.59	0.61	0.59	5.34
	Ch 30-45	Cum	1	15.00	0.60	0.53	0.54	0.55	0.54	4.86
	Ch 45-60	Cum	1	15.00	0.60	0.59	0.60	0.62	0.60	5.43
	Ch 60-75	Cum	1	15.00	0.60	0.60	0.62	0.63	0.62	5.55
	Ch 75-90	Cum	1	15.00	0.60	0.62	0.61	0.63	0.62	5.58
	Main Road (RHS)									
	Ch 0-15	Cum	1	15.00	0.60	0.61	0.62	0.60	0.61	5.49
	Ch 15-30	Cum	1	15.00	0.60	0.58	0.59	0.61	0.59	5.34
	Ch 30-45	Cum	1	15.00	0.60	0.52	0.54	0.53	0.53	4.77
	Ch 45-60	Cum	1	15.00	0.60	0.59	0.60	0.62	0.60	5.43

245.59

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	Ch 60-75	Cum	1	15.00	0.60	0.61	0.62	0.63	0.62	5.58
	Ch 75-90	Cum	1	15.00	0.60	0.60	0.61	0.60	0.60	5.43
	Cross Road-1 (LHS)	Cum	1	24.00	0.60	0.62	0.60	0.62	0.61	8.83
	Cross Road-1 (RHS)	Cum	1	24.00	0.60	0.61	0.62	0.63	0.62	8.93
	Kattigenhalli									
	Near Over head Tank Road (LHS)									
	Ch 0-15	Cum	1	15.00	0.75	0.43	0.45	0.46	0.45	5.03
	Ch 15-30	Cum	1	15.00	0.75	0.45	0.44	0.46	0.45	5.06
	Ch 30-45	Cum	1	15.00	0.75	0.50	0.48	0.46	0.48	5.40
	Ch 45-60	Cum	1	15.00	0.75	0.48	0.46	0.46	0.47	5.25
	Ch 60-75	Cum	1	15.00	0.75	0.44	0.45	0.46	0.45	5.06
	Ch 75-90	Cum	1	15.00	0.75	0.47	0.46	0.45	0.46	5.18
	Ch 90-97.4	Cum	1	7.40	0.75	0.45	0.43	0.46	0.45	2.48
	Near Over head Tank Road (RHS)									
	Ch 0-15	Cum	1	15.00	0.75	0.43	0.45	0.44	0.44	4.95
	Ch 15-30	Cum	1	15.00	0.75	0.45	0.44	0.43	0.44	4.95
	Ch 30-45	Cum	1	15.00	0.75	0.50	0.48	0.45	0.48	5.36
	Ch 45-60	Cum	1	15.00	0.75	0.48	0.46	0.47	0.47	5.29
	Ch 60-75	Cum	1	15.00	0.75	0.44	0.45	0.46	0.45	5.06
	Ch 75-90	Cum	1	15.00	0.75	0.47	0.46	0.45	0.46	5.18
	Ch 90-97.4	Cum	1	7.40	0.75	0.45	0.43	0.42	0.43	2.41
	Cross road 2									
	Ch 0-15	Cum	1	15.00	0.75	0.43	0.45	0.44	0.44	4.95
	Ch 15-30	Cum	1	15.00	0.75	0.45	0.44	0.43	0.44	4.95
	Ch 30-36	Cum	1	6.00	0.75	0.50	0.48	0.45	0.48	2.15
	Cross Road-3 Near Doddamma Temple	Cum								
	Ch 0-15	Cum	1	15.00	0.75	0.43	0.45	0.42	0.43	4.88
	Ch 15-30	Cum	1	15.00	0.75	0.45	0.44	0.43	0.44	4.95
	Ch 30-45	Cum	1	15.00	0.75	0.45	0.48	0.46	0.46	5.21
	Ch 45-60	Cum	1	15.00	0.75	0.48	0.46	0.46	0.47	5.25
	Ch 60-75	Cum	1	15.00	0.75	0.44	0.45	0.46	0.45	5.06
	Ch 75-90	Cum	1	15.00	0.75	0.44	0.46	0.45	0.45	5.06
	Ch 90-105	Cum	1	15.00	0.75	0.45	0.43	0.46	0.45	5.03
	Ch 105-120	Cum	1	15.00	0.75	0.43	0.45	0.44	0.44	4.95
	Ch 120-135	Cum	1	15.00	0.75	0.45	0.44	0.43	0.44	4.95
	Ch 135-150	Cum	1	15.00	0.75	0.46	0.48	0.45	0.46	5.21
	Ch 150-152.5	Cum	1	2.50	0.75	0.48	0.46	0.47	0.47	0.88
	Krishna Garden 3rd cross									
	Ch 0-15		1	15.00	0.60	0.45	0.42	0.47	0.45	4.02
	Ch 15-30		1	15.00	0.60	0.48	0.46	0.45	0.46	4.18
	Ch 30-45		1	15.00	0.60	0.46	0.40	0.42	0.43	3.84
	Ch 45-60		1	15.00	0.60	0.47	0.45	0.46	0.46	4.14
	Ch 60-75		1	15.00	0.60	0.35	0.40	0.38	0.38	3.39
				Total qty						424.35

178.46

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

5	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)									
A	For RCC Drain (PCC)									

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A	Agrahara main road in front of government school									
	Ch 0-15	Cum	1	15	1.10			0.15		2.48
	Ch 15-30	Cum	1	15	1.10			0.15		2.48
	Ch 30-45.5	Cum	1	15.5	1.10			0.15		2.56
				45.50						7.51
B	Agrahara RO Plant road									
	Ch 0-15	Cum	1	15.00	1.10			0.15		2.48
	Ch 15-30	Cum	1	15.00	1.10			0.15		2.48
	Ch 30-45	Cum	1	15.00	1.10			0.15		2.48
	Ch 45-53	Cum	1	8.00	1.10			0.15		1.32
				53.00						8.75
C	Kattigenahalli									
	Bellikallu ranganath swami nilaya to dead end									
	RHS DRAIN									
	Ch 0-15	Cum	1	15.00	1.10			0.15		2.48
	Ch 15-30	Cum	1	15.00	1.10			0.15		2.48
	Ch 30-46.3	Cum	1	16.30	1.10			0.15		2.69
				46.30						7.64
	LHS DRAIN									
	Ch 0-15	Cum	1	15.00	1.10			0.15		2.48
	Ch 15-30	Cum	1	15.00	1.10			0.15		2.48
				30.00						4.95
	CULVERT									
	Agrahara main road in front of government school	Cum	1	8.00	1.50			0.15		1.80
	Kattigenahalli in front of muneshwara nilaya	cum	1	7.00	1.50			0.15		1.58
	Bellikallu ranganath swami nilaya to dead end	cum	1	7.00	1.20			0.15		1.26
	Omm circle to muneshwara nilaya	cum	1	5.00	1.20			0.15		0.90
										5.54
								Actiual Qty		34.38

20/3/23

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

7	Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)									
	for RCC drain (Steel qty)	Tonne								
	Longitudinal bars (8mm dia)		No ofbars	Length						
A	Agrahara main road in front of government school									
	Ch 0-15		16	15						240.00
	Ch 15-30		16	15						240.00
	Ch 30-45.5		16	15.5						248.00
B	Agrahara RO Plant road									
	Ch 0-15		16	15						240.00
	Ch 15-30		16	15						240.00

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	Ch 30-45		16	15						240.00
	Ch 45-53		16	8						128.00
C	Bellikallu ranganath swami nilaya to dead end (RHS)									
	Ch 0-15		16	15						240.00
	Ch 15-30		16	15						240.00
	Ch 30-46.3		16	16.3						260.80
	Bellikallu ranganath swami nilaya to dead end (LHS)									
	Ch 0-15		16	15						240.00
	Ch 15-30		16	15						240.00
				Total Length in Mtr						2796.80
			A	wt @ 0.39kg/mtr						1090.75
	10 mm dia distribution bars									
A	Agrahara main road in front of government school									
	Ch 0-15		101	2.25						227.25
	Ch 15-30		101	2.25						227.25
	Ch 30-45.5		104	2.25						234.00
B	Agrahara RO Plant road									
	Ch 0-15		101	2.25						227.25
	Ch 15-30		101	2.25						227.25
	Ch 30-45		101	2.25						227.25
	Ch 45-53		54	2.25						121.50
C	Bellikallu ranganath swami nilaya to dead end (Kattigenahalli)(RHS)									
	Ch 0-15		101	2.25						227.25
	Ch 15-30		101	2.25						227.25
	Ch 30-46.3		110	2.25						247.50
	Bellikallu ranganath swami nilaya to dead end (Kattigenahalli)(LHS)									
	Ch 0-15		101	2.25						227.25
	Ch 15-30		101	2.25						227.25
				Total Length in Mtr						2648.25
			B	wt @ 0.62kg/mtr						1641.92
	For culverts									
	12 mm dia Longitudinal bars									
	Agrahara main road in front of government school									
	bottom mat		24	8.00						192.00
	top mat		23	8.00						184.00
	Kattigenahalli in front of muneshwara nilaya									
	bottom mat		19	7.00						133.00
	top mat		16	7.00						112.00
	Bellikallu ranganath swami nilaya to dead end (Kattigenahalli)									
	bottom mat		19	7.00						133.00
	top mat		16	7.00						112.00
	Omm circle to muneshwara nilaya									
	bottom mat		19	5.00						95.00
	top mat		16	5.00						80.00
				Total Length in Mtr						1041.00

1588.80

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	12 mm dia distribution bars		C	wt @ 0.89kg/mtr								926.49
	Agrahara main road in front of government school											
	bottom mat											
	top mat		55	3.40								187.00
	Kattigenahalli in front of muneshwara nilaya		55	3.20								176.00
	bottom mat											
	top mat		48	2.60								124.80
	Bellikallu ranganath swami nilaya to dead end (Kattigenahalli)		48	2.20								105.60
	bottom mat											
	top mat		48	2.60								124.80
	Omm circle to muneshwara nilaya		48	2.20								105.60
	bottom mat											
	top mat		35	2.60								91.00
			35	2.20								77.00
				Total Length in Mtr								991.80
			D	wt @ 0.89kg/mtr								882.70
				Total Wt in Kgs (A to D)								4541.86
				Total Wt in Tonne								4.541859

3/4/23
Assistant Engineer
Ward No -08

03/04
Assistant Executive Engineer
Byatarayanapura Sub Division-I

6	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)											
	For RCC Drain (Raft)											
A	Agrahara main road in front of government school											
	Ch 0-15	Cum	1	15	0.90				0.15			2.03
	Ch 15-30	Cum	1	15	0.90				0.15			2.03
	Ch 30-45.5	Cum	1	15.5	0.90				0.15			2.09
				45.50								6.14
B	Agrahara RO Plant road											
	Ch 0-15	Cum	1	15.00	0.90				0.15			2.03
	Ch 15-30	Cum	1	15.00	0.90				0.15			2.03
	Ch 30-45	Cum	1	15.00	0.90				0.15			2.03
	Ch 45-53	Cum	1	8.00	0.90				0.15			1.08
				53.00								7.16
C	Kattigenahalli											
	Bellikallu ranganath swami nilaya to dead end (RHS)											
	Ch 0-15	Cum	1	15.00	0.90				0.15			2.03
	Ch 15-30	Cum	1	15.00	0.90				0.15			2.03
	Ch 30-46.3	Cum	1	16.30	0.90				0.15			2.20
				46.30								6.25
	Bellikallu ranganath swami nilaya to dead end (LHS)											
	Ch 0-15	Cum	1	15.00	0.90				0.15			2.03
	Ch 15-30	Cum	1	15.00	0.90				0.15			2.03
				30.00								4.05
	CULVERT											

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	Agrahara main road in front of government school	Cum	1	8.00	1.30	0.15	1.56
	Kattigenahalli in front of muneshwara nilaya	cum	1	7.00	1.20	0.15	1.26
	Bellikallu ranganath swami nilaya to dead end (Kattigenahalli)	cum	1	7.00	1.20	0.15	1.26
	Omm circle to muneshwara nilaya	cum	1	5.00	1.20	0.15	0.90
	Wall concrete						
A	Agrahara main road in front of government school						
	Ch 0-15	Cum	2	15	0.15	0.70	3.15
	Ch 15-30	Cum	2	15	0.15	0.70	3.15
	Ch 30-45.5	Cum	2	15.5	0.15	0.60	2.79
				45.50			9.09
B	Agrahara RO Plant road						
	Ch 0-15	Cum	2	15.00	0.15	0.75	3.38
	Ch 15-30	Cum	2	15.00	0.15	0.70	3.15
	Ch 30-45	Cum	2	15.00	0.15	0.60	2.70
	Ch 45-53	Cum	2	8.00	0.15	0.60	1.44
				53.00			10.67
C	Kattigenahalli						
	Bellikallu ranganath swami nilaya to dead end (RHS)						
	Ch 0-15	Cum	2	15.00	0.15	0.60	2.70
	Ch 15-30	Cum	2	15.00	0.15	0.60	2.70
	Ch 30-46.3	Cum	2	16.30	0.15	0.60	2.93
				46.30			8.33
	Bellikallu ranganath swami nilaya to dead end (LHS)						
	Ch 0-15	Cum	2	15.00	0.15	0.60	2.70
	Ch 15-30	Cum	2	15.00	0.15	0.60	2.70
				30.00			5.40
	CULVERT						
	Agrahara main road in front of government school	Cum	2	8.00	0.20	0.90	2.88
	Kattigenahalli in front of muneshwara nilaya	cum	2	7.00	0.15	0.75	1.58
	Bellikallu ranganath swami nilaya to dead end (Kattigenahalli)	cum	2	7.00	0.15	0.75	1.58
	Omm circle to muneshwara nilaya	cum	2	5.00	0.15	0.75	1.13
							7.16
				Actiual Qty			69.22

Assistant Engineer
Ward No:06

Assistant Executive Engineer
Byatarayanapura Sub Division

10	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)						
	Road Cut Portion	Cum					
	bellikallu ranganath swami nilaya to dead end						
	Ch 0-15	cum	1	15.00	6.70	0.15	15.08
	Ch 15-30	cum	1	15.00	6.50	0.15	14.63
	Ch 30-46.3	cum	1	16.30	6.50	0.15	15.89
							45.59

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	extension portion						
	Kattigenhalli	cum	1	7.80	4.30	0.15	5.03
	Cross Road-3 Near Doddamma Temple						
	Ch 0-15						
	Ch 15-30	Cum	1	15.00	3.35	0.15	7.54
	Ch 30-45	Cum	1	15.00	3.25	0.15	7.31
	Ch 45-60	Cum	1	15.00	3.00	0.15	6.75
	Ch 60-75	Cum	1	15.00	3.65	0.15	8.21
	Ch 75-90	Cum	1	15.00	3.15	0.15	7.09
	Ch 90-105	Cum	1	15.00	4.15	0.15	9.34
	Ch 105-120	Cum	1	15.00	4.75	0.15	10.69
	Ch 120-135	Cum	1	15.00	5.1	0.15	11.48
	Ch 135-150	Cum	1	15.00	4.10	0.15	9.23
	Ch 150-152.5	Cum	1	15.00	5.00	0.15	11.25
	Inside Agrahara govt school compound	Cum	1	2.50	3.35	0.15	1.26
	Cross Road-3A Near Doddamma Temple	Cum	1	8.30	3.50	0.15	4.36
			1	20.00	2.60	0.20	10.40
						Total Qty	155.51

109.92

Assistant Engineer
Ward.No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

11	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead MORTH Specification No. 305.4.3 PWD SR 21-22 Vol III Pg no 15, Item No 3.5)						
a	Kattigenhalli	Sqm					
	Omm circle to muneshwara nilaya						
	Ch 0-15		1	15.00	4.50		67.50
	Ch 15-30		1	15.00	3.70		55.50
	Ch 30-45		1	15.00	3.80		57.00
	Ch 45-60		1	15.00	3.60		54.00
	Ch 60-75		1	15.00	4.10		61.50
	Ch 75-90		1	15.00	5.00		75.00
	Ch 90-97.4		1	7.40	4.80		35.52
	road turning		1	7.50	6.15		46.13
	Krishna Garden 3rd cross						
	Ch 0-15		1	15.00	4.90		73.50
	Ch 15-30		1	15.00	4.80		72.00
	Ch 30-45		1	15.00	4.70		70.50
	Ch 45-60		1	15.00	4.90		73.50
	Ch 60-75		1	15.00	4.80		72.00
	Ch 75-90		1	15.00	4.90		73.50
	Krishna nagar						
	Main Road						
	Ch 0-15	Sqm	1	15.00	4.50		67.50
	Ch 15-30	Sqm	1	15.00	3.70		55.50
	Ch 30-45	Sqm	1	15.00	3.80		57.00
	Ch 45-60	Sqm	1	15.00	3.60		54.00
	Ch 60-73.6	Sqm	1	13.60	4.10		55.76
	Cross Road-1						
	Ch 0-15	Sqm	1	15.00	4.70		70.50
	Ch 15-23.5	Sqm	1	8.50	5.00		42.50
	ch 23.5-30	Sqm	1	6.50	3.00		19.50
						Total deduction	1309.41

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

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12	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading,grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work. (PWD SR 21-22 Vol I Pg no 7 Item No 1.8)									
	Kattigenhalli									
	bellikallu ranganath swami nilaya to dead end									
	Ch 0-15	cum	1	15.00	6.70			0.20		20.10
	Ch 15-30	cum	1	15.00	6.50			0.20		19.50
	Ch 30-46.3	cum	1	16.30	6.50			0.20		21.19
	extension portion	cum	1	7.80	4.30			0.20		6.71
				54.10						67.50

29/4/23
Assistant Engineer
Ward No. 06

29/04
Assistant Executive Engineer
Byatarayanapura Sub Division

13	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A)									
	Road Cut Portion	Cum								
	Kattigenhalli									
	Omm circle to muneshwara nilaya									
	Ch 0-15		1	15.00	4.50			0.23		15.53
	Ch 15-30		1	15.00	3.70			0.23		12.77
	Ch 30-45		1	15.00	3.80			0.23		13.11
	Ch 45-60		1	15.00	3.60			0.23		12.42
	Ch 60-75		1	15.00	4.10			0.23		14.15
	Ch 75-90		1	15.00	5.00			0.23		17.25
	Ch 90-97.4		1	7.40	4.80			0.23		8.17
	road turning		1	7.50	6.15			0.23		10.61
	bellikallu ranganath swami nilaya to dead end							0.23		
	Ch 0-15		1	15.00	6.70			0.23		23.12
	Ch 15-30		1	15.00	6.50			0.23		22.43
	Ch 30-46.3		1	16.30	6.50			0.23		24.37
	extension portion		1	7.80	4.30			0.23		7.71
	Krishna Garden 3rd cross							0.23		
	Ch 0-15		1	15.00	4.90			0.23		16.91
	Ch 15-30		1	15.00	4.80			0.23		16.56
	Ch 30-45		1	15.00	4.70			0.23		16.22
	Ch 45-60		1	15.00	4.90			0.23		16.91
	Ch 60-75		1	15.00	4.80			0.23		16.56
	Ch 75-90		1	15.00	4.90			0.23		16.91
	Krishna nagar									
	Main Road									
	Ch 0-15		1	15.00	4.50			0.23		15.53
	Ch 15-30		1	15.00	3.70			0.23		12.77
	Ch 30-45		1	15.00	3.80			0.23		13.11
	Ch 45-60		1	15.00	3.60			0.23		12.42
	Ch 60-73.6		1	13.60	4.10			0.23		12.82
	Cross Road-1									
	Ch 0-15		1	15.00	4.70			0.23		16.22
	Ch 15-23.5		1	8.50	5.00			0.23		9.78
	ch 23.5-30		1	6.50	3.00			0.23		4.49
				TOTAL QTY						378.79

03/05

3/5/23
Assistant Engineer
Ward No. 06

03/05
Assistant Executive Engineer
Byatarayanapura Sub Division

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14	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))									
	Kattigenhalli	sqm								
	Near Over head Tank									
	Omm circle to muneshwara nilaya									
	Ch 0-15		1	15.00	4.50					67.50
	Ch 15-30		1	15.00	3.70					55.50
	Ch 30-45		1	15.00	3.80					57.00
	Ch 45-60		1	15.00	3.60					54.00
	Ch 60-75		1	15.00	4.10					61.50
	Ch 75-90		1	15.00	5.00					75.00
	Ch 90-97.4		1	7.40	4.80					35.52
	road turning		1	7.50	6.15					46.13
	bellikallu ranganath swami nilaya to dead end									
	Ch 0-15		1	15.00	6.70					100.50
	Ch 15-30		1	15.00	6.50					97.50
	Ch 30-46.3		1	16.30	6.50					105.95
	extension portion		1	7.80	4.30					33.54
	Krishna Garden 3rd cross									
	Ch 0-15		1	15.00	4.90					73.50
	Ch 15-30		1	15.00	4.80					72.00
	Ch 30-45		1	15.00	4.70					70.50
	Ch 45-60		1	15.00	4.90					73.50
	Ch 60-75		1	15.00	4.80					72.00
	Ch 75-90		1	15.00	4.90					73.50
	Krishna nagar									
	Main Road									
	Ch 0-15		1	15.00	4.50					67.50
	Ch 15-30		1	15.00	3.70					55.50
	Ch 30-45		1	15.00	3.80					57.00
	Ch 45-60		1	15.00	3.60					54.00
	Ch 60-73.6		1	13.60	4.10					55.76
	Cross Road-1									
	Ch 0-15		1	15.00	4.70					70.50
	Ch 15-23.5		1	8.50	5.00					42.50
	ch 23.5-30		1	6.50	3.00					19.50
									TOTAL QTY	1646.90

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

15	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))									
	Kattigenhalli									
	Near Over head Tank									
	Omm circle to muneshwara nilaya									
	Ch 0-15	Cum	1	15.00	4.50				0.05	3.38
	Ch 15-30	Cum	1	15.00	3.70				0.05	2.78
	Ch 30-45	Cum	1	15.00	3.80				0.05	2.85
	Ch 45-60	Cum	1	15.00	3.60				0.05	2.70
	Ch 60-75	Cum	1	15.00	4.10				0.05	3.08
	Ch 75-90	Cum	1	15.00	5.00				0.05	3.75
	Ch 90-97.4	Cum	1	7.40	4.80				0.05	1.78
	road turning	Cum	1	7.50	6.15				0.05	2.31
	bellikallu ranganath swami nilaya to dead end									

22.61

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Ch 0-15							
Ch 15-30	cum	1	15.00	6.70	0.05		5.03
Ch 30-46.3	cum	1	15.00	6.50	0.05		4.88
extension portion	cum	1	16.30	6.50	0.05		5.30
Krishna Garden 3rd cross	cum	1	7.80	4.30	0.05		1.68
Ch 0-15							
Ch 15-30		1	15.00	4.90	0.05		3.68
Ch 30-45		1	15.00	4.80	0.05		3.60
Ch 45-60		1	15.00	4.70	0.05		3.53
Ch 60-75		1	15.00	4.90	0.05		3.68
Ch 75-90		1	15.00	4.80	0.05		3.60
Krishna nagar		1	15.00	4.90	0.05		3.68
Main Road							
Ch 0-15							
Ch 15-30	cum	1	15.00	4.50	0.05		3.38
Ch 30-45	cum	1	15.00	3.70	0.05		2.78
Ch 45-60	cum	1	15.00	3.80	0.05		2.85
Ch 60-73.6	cum	1	15.00	3.60	0.05		2.70
Cross Road-1	cum	1	13.60	4.10	0.05		2.79
Ch 0-15							
Ch 15-23.5	cum	1	15.00	4.70	0.05		3.53
ch 23.5-30	cum	1	8.50	5.00	0.05		2.13
	cum	1	6.50	3.00	0.05		0.98
				Total qty			82.34

4/5/23
Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

16	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 (PWD SR 21-22 Vol III Pg no 29 Item No 5.4 (ii))									
	Kattigenhalli	cum								
	Near Over head Tank									
	Omm circle to muneshwara nilaya									
	Ch 0-15		1	15.00	4.50					67.50
	Ch 15-30		1	15.00	3.70					55.50
	Ch 30-45		1	15.00	3.80					57.00
	Ch 45-60		1	15.00	3.60					54.00
	Ch 60-75		1	15.00	4.10					61.50
	Ch 75-90		1	15.00	5.00					75.00
	Ch 90-97.4		1	7.40	4.80					35.52
	road turning		1	7.50	6.15					46.13
	bellikallu ranganath swami nilaya to dead end									
	Ch 0-15		1	15.00	6.70					100.50
	Ch 15-30		1	15.00	6.50					97.50
	Ch 30-46.3		1	16.30	6.50					105.95
	extension portion		1	7.80	4.30					33.54
	Krishna Garden 3rd cross									
	Ch 0-15		1	15.00	4.90					73.50
	Ch 15-30		1	15.00	4.80					72.00
	Ch 30-45		1	15.00	4.70					70.50
	Ch 45-60		1	15.00	4.90					73.50
	Ch 60-75		1	15.00	4.80					72.00
	Ch 75-90		1	15.00	4.90					73.50
	Krishna nagar									
	Main Road									
	Ch 0-15		1	15.00	4.50					67.50
	Ch 15-30		1	15.00	3.70					55.50
	Ch 30-45		1	15.00	3.80					57.00
	Ch 45-60		1	15.00	3.60					54.00

1458.64

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Ch 60-73.6		1	13.60	4.10					55.76
Cross Road-1									
Ch 0-15		1	15.00	4.70					70.50
Ch 15-23.5		1	8.50	5.00					42.50
ch 23.5-30		1	6.50	3.00					19.50
				Total qty					1646.90

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

19 Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately MORTH Specification No. 202(PWD SR 2021-22 Vol -III P.No.10 - I.No.2.19)

Kattigenhalli										
Cross Road-3 Near Doddamma Temple										
Ch 0-15	Cum	1	15.00	3.35			0.20			10.05
Ch 15-30	Cum	1	15.00	3.25			0.20			9.75
Ch 30-45	Cum	1	15.00	3.00			0.20			9.00
Ch 45-60	Cum	1	15.00	3.65			0.20			10.95
Ch 60-75	Cum	1	15.00	3.15			0.20			9.45
Ch 75-90	Cum	1	15.00	4.15			0.20			12.45
Ch 90-105	Cum	1	15.00	4.75			0.20			14.25
Ch 105-120	Cum	1	15.00	5.1			0.20			15.30
Ch 120-135	Cum	1	15.00	4.10			0.20			12.30
Ch 135-150	Cum	1	15.00	5.00			0.20			15.00
Ch 150-152.5	Cum	1	2.50	3.35			0.20			1.68
Cross Road-3A Near Doddamma Temple		1	15.00	2.60			0.20			7.80
										127.98

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

20 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates (PWD SR 21-22 Vol-I Pg no 15 Item No 2.11)

Kattigenhalli										
Cross Road-3 Near Doddamma Temple										
Ch 0-15	Cum	1	15.00	3.35			0.15			7.54
Ch 15-30	Cum	1	15.00	3.25			0.15			7.31
Ch 30-45	Cum	1	15.00	3.00			0.15			6.75
Ch 45-60	Cum	1	15.00	3.65			0.15			8.21
Ch 60-75	Cum	1	15.00	3.15			0.15			7.09
Ch 75-90	Cum	1	15.00	4.15			0.15			9.34
Ch 90-105	Cum	1	15.00	4.75			0.15			10.69
Ch 105-120	Cum	1	15.00	5.1			0.15			11.48
Ch 120-135	Cum	1	15.00	4.10			0.15			9.23
Ch 135-150	Cum	1	15.00	5.00			0.15			11.25
Ch 150-152.5	Cum	1	2.50	3.35			0.15			1.26
Inside Agrahara govt school compound	Cum	1	8.30	3.50			0.20			5.81

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	Cross Road-3A Near Doddamma Temple		1	20.00	3.20	0.15	9.60
	Beside Agrahara govt school compound		1	4.00	3.00	0.20	2.40
						Total qty	107.94

12.00

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

24	**Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.** (Tipper 5.5 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A)									
	Qty Vide frm Item No-1+5+12	Cum								707.84
	Total									707.84

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

25	**Cost of Haulage** Excluding Loading and Unloading Taking output 10 t load and lead 10 km=100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)									
		t.Km		890.82	1.28					1140.25
										1140.25

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

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